



## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/501,262  
Source: PG/10  
Date Processed by STIC: 7/20/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
- U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/501,262</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <u>      </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u>      </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u>      </u> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <u>      </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <u>      </u> Variable Length	Sequence(s) <u>      </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u>      </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u>      </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u>      </u> Skipped Sequences (OLD RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) <del>SEQUENCE CHARACTERISTICS</del> : (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u>      </u> Skipped Sequences (NEW RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u>      </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u>      </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u>      </u> Use of <220>	Sequence(s) <u>      </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u>      </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u>      </u> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



PCT

## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,262

TIME: 11:31:58

Input Set : A:\3769.1000-000 sequence listing.txt

Output Set: N:\CRF4\07202004\J501262.raw

3 <110> APPLICANT: University of Southampton  
 5 <120> TITLE OF INVENTION: Method for detecting HCV-1 Genotype  
 7 <130> FILE REFERENCE: p35024wo  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/501,262  
 C--> 10 <141> CURRENT FILING DATE: 2004-07-09  
 12 <150> PRIOR APPLICATION NUMBER: GB0200526  
 13 <151> PRIOR FILING DATE: 2002-01-11  
 15 <160> NUMBER OF SEQ ID NOS: 8  
 17 <170> SOFTWARE: PatentIn version 3.2  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 17  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Primer  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: misc\_feature ✓  
 30 <222> LOCATION: (3)..(3)  
 31 <223> OTHER INFORMATION: n=inosine  
 33 <400> SEQUENCE: 1  
 W--> 34 ccnctcaatg cctggag 17  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 22  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Artificial  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: primer  
 45 <400> SEQUENCE: 2  
 46 gcagtaccac aaggcctttc gc 22  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 19  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Artificial  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: Primer  
 57 <400> SEQUENCE: 3  
 58 cgtctagcca tggcgtag 19  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 19  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: Artificial  
 66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: primer

2-3  
 Does Not Comply  
 Corrected Diskette Needed

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Input Set : A:\3769.1000-000 sequence listing.txt

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69 <400> SEQUENCE: 4  
 70 ggaactactg tcttcacgc 19

73 &lt;210&gt; SEQ ID NO: 5

74 &lt;211&gt; LENGTH: 17

75 &lt;212&gt; TYPE: DNA

76 <213> ORGANISM: Primer

78 &lt;400&gt; SEQUENCE: 5

79 acggtctacg agacctc

82 &lt;210&gt; SEQ ID NO: 6

83 &lt;211&gt; LENGTH: 26

84 &lt;212&gt; TYPE: DNA

85 &lt;213&gt; ORGANISM: Artificial

87 &lt;220&gt; FEATURE:

88 &lt;223&gt; OTHER INFORMATION: primer

91 &lt;220&gt; FEATURE:

92 &lt;221&gt; NAME/KEY: misc\_feature

93 &lt;222&gt; LOCATION: (1)..(1)

94 <223> OTHER INFORMATION: n = 6-FAM

96 &lt;220&gt; FEATURE:

97 &lt;221&gt; NAME/KEY: misc\_feature

98 &lt;222&gt; LOCATION: (5)..(5)

99 &lt;223&gt; OTHER INFORMATION: n=inosine

101 &lt;220&gt; FEATURE:

102 &lt;221&gt; NAME/KEY: misc\_feature

103 &lt;222&gt; LOCATION: (13)..(13)

104 &lt;223&gt; OTHER INFORMATION: n=inosine

106 &lt;220&gt; FEATURE:

107 &lt;221&gt; NAME/KEY: misc\_feature

108 &lt;222&gt; LOCATION: (19)..(19)

109 &lt;223&gt; OTHER INFORMATION: n= inosine

111 &lt;400&gt; SEQUENCE: 6

W--&gt; 112 ncgcnaccca acnctactng gctagt

26

115 &lt;210&gt; SEQ ID NO: 7

116 &lt;211&gt; LENGTH: 39

117 &lt;212&gt; TYPE: DNA

118 &lt;213&gt; ORGANISM: Artificial

120 &lt;220&gt; FEATURE:

121 &lt;223&gt; OTHER INFORMATION: primer

124 &lt;220&gt; FEATURE:

125 &lt;221&gt; NAME/KEY: misc\_feature

126 &lt;222&gt; LOCATION: (1)..(1)

127 <223> OTHER INFORMATION: n=6-FAM

129 &lt;220&gt; FEATURE:

130 &lt;221&gt; NAME/KEY: misc\_feature

131 &lt;222&gt; LOCATION: (21)..(21)

132 &lt;223&gt; OTHER INFORMATION: n=MeREDdU OK

134 &lt;400&gt; SEQUENCE: 7

W--&gt; 135 ncaccttcac cctcagaagg ngccgctcaa tgcctggag

39

138 &lt;210&gt; SEQ ID NO: 8

## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,262

TIME: 11:31:58

Input Set : A:\3769.1000-000 sequence listing.txt

Output Set: N:\CRF4\07202004\J501262.raw

139 <211> LENGTH: 41  
140 <212> TYPE: DNA  
141 <213> ORGANISM: Artificial  
143 <220> FEATURE:  
144 <223> OTHER INFORMATION: primer  
147 <220> FEATURE:  
148 <221> NAME/KEY: misc\_feature  
149 <222> LOCATION: (1)..(1)  
150 <223> OTHER INFORMATION: n=6-FAM  
152 <220> FEATURE:  
153 <221> NAME/KEY: misc\_feature  
154 <222> LOCATION: (21)..(21)  
155 <223> OTHER INFORMATION: n=MeREDdU  
157 <220> FEATURE:  
158 <221> NAME/KEY: misc\_feature  
159 <222> LOCATION: (25)..(25)  
160 <223> OTHER INFORMATION: U=uracil  
162 <220> FEATURE:  
163 <221> NAME/KEY: misc\_feature  
164 <222> LOCATION: (25)..(25)  
165 <223> OTHER INFORMATION: n=uracil  
167 <400> SEQUENCE: 8

W--&gt; 168 ncaccttcac cctcagaagg ngcgnctagc catggcgta g

41

FYI!  
"n" can only represent a single nucleotide

delete - already shown above

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/501,262

DATE: 07/20/2004  
TIME: 11:31:59

Input Set : A:\3769.1000-000 sequence listing.txt  
Output Set: N:\CRF4\07202004\J501262.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3  
Seq#:6; N Pos. 1,5,13,18  
Seq#:7; N Pos. 1,21  
Seq#:8; N Pos. 1,21,25

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,6,7,8

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/501,262

DATE: 07/20/2004

TIME: 11:31:59

Input Set : A:\3769.1000-000 sequence listing.txt

Output Set: N:\CRF4\07202004\J501262.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0